

UNITED STATES DEPARTMENT OF AGRICULTURE

SERVICE AND REGULATORY ANNOUNCEMENTS

BUREAU OF ANIMAL INDUSTRY

MARCH 1939

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the Bureau, establishments at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 25 cents a year (foreign, 60 cents). A supply will be sent to each official in charge of a station or branch of the Bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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CHANGES IN DIRECTORY

Meat Inspection Granted

- †149. Abbott's Ready Chili Manufacturing Co., 211 East Gary Street, Duluth, Minn.
- *523. Mitchell Abattoir, Inc., East Haven Avenue, Mitchell, S. Dak.
- †744. The Lindner Packing & Provision Co., 1620-30 Market Street, Denver, Colo.

Meat Inspection Withdrawn

- 59-A. Swift & Co., East and Flushing Avenues, Brooklyn, N. Y.
- 121. San Antonio Meat Co., Pomona, Calif.
- 615. Frank M. Firor, 571 First Avenue, New York, N. Y.
- 989. The Schafer Packing Co., Inc., Coal and Belmont Streets, Easton, Pa.
From subsidiary: J. J. Harrington & Co., Inc., under establishment 59, Swift & Co., New York, N. Y.

Meat Inspection Extended

- 258. Hygrade Food Products Corporation, Buffalo, N. Y., to include Dold Packing Corporation.

† No sealed cars.
• Conducts slaughtering.

373. Hygrade Food Products Corporation, Wheeling, W. Va., to include Dold Packing Corporation.
405. Hygrade Food Products Corporation, Newark, N. J., to include Dold Packing Corporation.

Change of Name of Official Establishment

42. Hygrade Food Products Corporation, Buffalo, N. Y., and their subsidiaries, A. Fink & Sons Co., Inc., Dunlevy-Franklin Corporation, Sullivan Packing Co., Inc., Western Packing & Provision Co., Parker-Webb Co., Klinck Packing Co., F. Schenk & Sons Co., Inc., Carmel Kosher Provision Co., Inc., Bronx Provision Corporation of New York, Chris Grozinger Corporation of New York, Allied Packers, Inc., Hygrade Provision Co., and Dold Packing Corporation, instead of Jacob Dold Packing Co.

Change of Location of Official Establishment

19-I. The Cudahy Packing Co., 820 Washington Street, New York, N. Y., instead of 611-613 West Thirty-fourth Street.

Change of Address of Official in Charge

Dr. H. S. Weber, Union Stock Yards, Lancaster, Pa., instead of 29 East Liberty Street.

Dr. L. E. Patton, 37 Federal Building, Newport, Vt., instead of 22 Federal Building.

New Substations

Mitchell, S. Dak., meat inspection, under Dr. J. A. Sullivan, Sioux Falls, S. Dak.

Statesboro, Ga., enforcement Packers and Stockyards Act, under M. L. Haskell, Montgomery, Ala.

Substations Discontinued

Easton, Pa., meat inspection, under Dr. R. R. Newman, Allentown, Pa.

Pasco, Wash., enforcement Packers and Stockyards Act, under Paul McCormick, North Portland, Oreg.

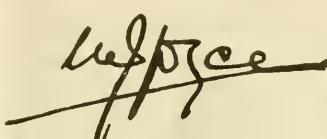
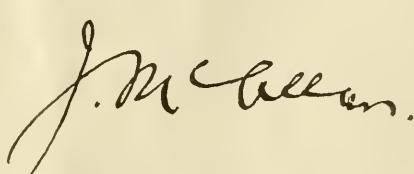
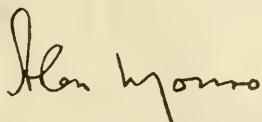
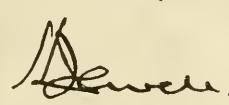
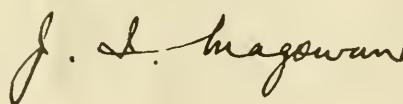
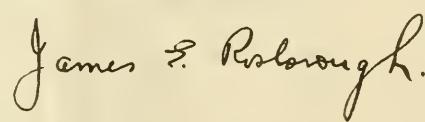
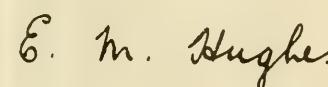
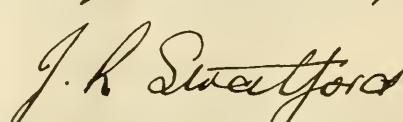
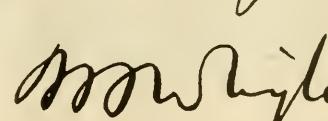
Note

Supervision of enforcement Packers and Stockyards Act has been withdrawn at Savannah, Ga., under Dr. Herbert Bryan, Augusta, Ga.

NOTICES REGARDING MEAT INSPECTION

FOREIGN MEAT-INSPECTION OFFICIALS

Names and specimen signatures of foreign officials who have been authorized by their national government to sign and issue foreign meat inspection certificates for meat and meat food products exported to the United States.

Country and name	Signature
<i>Ireland:</i>	
M. J. Joyce-----	
<i>Northern Ireland:</i>	
J. McAllen-----	
A. Monro-----	
H. Jewell-----	
J. I. Magowan-----	
St. J. C. P. MacFarlan-----	
J. E. Rosborough-----	
E. M. Hughes-----	
D. J. Donnelly-----	
J. R. Stratford-----	
A. A. Whyte-----	

Name of a foreign official who is no longer authorized by his national government to sign and issue foreign meat inspection certificates for meat and meat food products exported to the United States: Northern Ireland, R. W. Casseils

MEAT AND MEAT FOOD PRODUCTS FOR GREAT BRITAIN

Under the Public Health (Imported Food) Regulations, 1937, of Great Britain all containers of meat and meat food products, including burlap and other cloth wrappings, from the United States are required to bear regular export meat-inspection stamps. Accordingly, in the future export meat-inspection stamps should be affixed to cloth wrappings, and the like, used as outside containers of meat and meat food products for Great Britain, and the marking of such containers with the inspection legend and establishment number by means of a Bureau ink brand should be discontinued.

In order to insure that meat and meat food products arrive in foreign countries in containers bearing export meat-inspection stamps, inspectors in charge and exporters are requested to see that the stamps are affixed with such permanency to all types of outside containers that the stamps will reach destination properly in place and legible. This may require that burlap and similar fabrics for use on shipments to Great Britain be prepared by sewing thereto a close-meshed patch of cloth to which the export stamp shall be affixed.

TEMPERATURES FOR STEAM PRESSURE COOKING

Referring to Circular Letters Nos. 1620 and 1622, the terms "pressure cooking," "sterilized under pressure," and "cooked under pressure" shall be understood to mean "cooked under steam pressure." It should be kept in mind, however, that canned products are sometimes cooked in retorts which are not operated under steam pressure at any time during the heating process. Cooking in retorts does not necessarily imply more thorough cooking than other methods, the temperature attained *in the product* and the length of time the internal temperature is maintained being the important factors.

Steam gauge pressures are convertible into temperatures, provided due allowance is made for altitude and barometric pressure. The following table may be taken as approximately correct for the altitudes given but is not exact, as it is based on normal barometric pressures for the various altitudes.

Steam gauge pressure (lbs. per sq. in.)	Temperatures in degrees F. at—			
	Sea level	2,000 ft.	4,000 ft.	5,000 ft.
0.....	1 212.0	1 208.1	1 204.4	1 202.5
1.....	215.3	211.7	208.1	206.4
2.....	218.5	215.1	211.7	210.1
3.....	221.5	218.2	215.1	213.5
4.....	224.4	221.2	218.3	216.8
5.....	227.1	224.1	221.3	219.9
6.....	229.8	226.9	224.2	222.8
7.....	232.3	229.6	226.9	225.6
8.....	234.9	232.1	229.6	228.3
9.....	237.2	234.6	232.1	231.0
10.....	239.4	236.9	234.6	233.5
12.....	243.7	241.4	239.2	238.1
14.....	247.9	245.6	243.5	242.6
16.....	251.6	249.6	247.6	246.6
18.....	255.3	253.4	251.5	250.6
20.....	258.8	257.0	255.2	254.3

¹ Temperatures of boiling water at altitudes indicated.

Canners sometimes use steam gauges and thermometers from which the correct steam pressures and temperatures may be obtained only by the use of a code or "key." In such cases, if the question of temperature is one of importance to the inspector in procuring observance of the regulations, he should request a copy of the code from the management.

**ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION,
FEBRUARY 1939¹**

Station	Cattle	Calves	Sheep and lambs	Goats	Swine
Baltimore	6,213	1,743	1,782	-----	51,231
Chicago ²	92,896	25,188	227,524	-----	274,930
Denver	7,717	1,287	27,540	-----	17,204
Kansas City	38,856	17,144	101,423	-----	84,828
New York ³	34,002	54,745	247,044	-----	174,738
Omaha	51,450	3,985	91,037	-----	99,894
St. Louis ⁴	33,429	26,106	31,309	-----	189,723
Sioux City	23,053	1,086	54,267	-----	80,930
South St. Paul ⁵	43,334	40,258	58,128	-----	155,599
All other stations	316,617	210,247	520,910	83	1,761,351
Total:					
February 1939	652,567	384,789	1,360,964	83	2,890,428
February 1938	716,147	398,116	1,423,533	342	2,833,046
8 months ended—					
February 1939	6,498,111	3,490,372	12,013,278	3,576	25,895,443
February 1938	6,828,280	3,858,556	11,788,425	6,882	22,262,392

1 Horses slaughtered:

February 1939	2,121
February 1938	1,365
8 months ended—	
February 1929	22,601
February 1938	12,309

² Includes Elburn, Ill.³ Includes Jersey City and Newark, N. J.⁴ Includes National Stock Yards and East St. Louis, Ill.⁵ Includes Newport and St. Paul, Minn.
**MEAT AND MEAT FOOD PRODUCTS PREPARED AND PROCESSED
UNDER FEDERAL MEAT INSPECTION, FEBRUARY 1939**

Product	Quantity	Product	Quantity
Meat placed in cure:		Canned meat and meat food products:	
Beef	Pounds 7,313,157	Beef	Pounds 6,071,973
Pork	169,701,078	Pork	15,571,564
Smoked and/or dried:		Sausage	2,661,502
Beef	3,624,053	Soup	19,967,511
Pork	97,165,096	All other	5,993,469
Sausage:		Bacon, sliced	18,169,033
Fresh, finished	9,979,798	Lard:	
Smoked and/or cooked	36,504,682	Rendered	85,941,060
To be dried or semidried	6,994,155	Refined	72,435,886
Loaf, headcheese, chili con carne, jellied products, etc.	6,961,454	Oleo stock	8,729,320
Cooked meat:		Edible tallow	6,016,993
Beef	650,874	Compound containing animal fat	23,130,320
Pork	11,712,571	Oleomargarine containing animal fat	4,063,100
		Miscellaneous	1,379,735
		Total	1,620,788,394

¹ This figure represents "inspection pounds" as some of the products may have been inspected and recorded more than once due to having been subjected to more than one distinct processing treatment, such as curing first and then canning.

MEAT AND MEAT FOOD PRODUCTS CERTIFIED FOR EXPORT, FEBRUARY 1939

Product	Quantity during—		Product	Quantity during—	
	Februa- ry 1939	Februa- ry 1938		Februa- ry 1939	Februa- ry 1938
Beef and veal:			Pork:		
Fresh	171,225	171,474	Fresh	1,026,144	931,333
Cured	276,639	501,389	Cured	5,635,399	5,210,406
Smoked	414	317	Smoked	212,484	185,471
Canned	266,970	464,141	Canned	914,647	963,169
Edible organs—			Edible organs—		
Fresh	321,363	363,883	Fresh	410,236	876,011
Cured	20,257	404	Cured	274,564	19,040
Miscellaneous	50,445	72,055	Miscellaneous	22,146	56,666
Mutton and lamb:			Sausage	23,035	244,132
Fresh	45,863	10,337	Lard	23,369,334	15,791,198
Canned	25,209	12,960	Compound (lard substitute)	12,981	120,340
Edible organs—			Oleo stock	195,083	102,295
Fresh	51,242	247,705	Oleo oil	468,696	366,073
Cured	48		Oleostearin	6,391	5,021
Miscellaneous	46	926	Oleomargarine	2,926	5,020
			Total	34,013,739	26,721,814
			Horse meat	175,500	139,103

FOOD ANIMALS AND MEAT AND MEAT FOOD PRODUCTS INSPECTED WHEN OFFERED FOR IMPORTATION, FEBRUARY 1939

Food animals passed for entry

Country of origin	Cattle	Swine	Sheep	Goats
Mexico	81,035			
Canada	8,376	14	217	2
Channel Islands	63			
Virgin Islands (to Puerto Rico)	98			
Total:				
February 1939	89,572	14	217	2
February 1938	27,242	49	1,044	10
8 months ended—				
February 1939	388,350	218	2,612	34
February 1938	244,180	28,208	4,573	80

Meat and meat food products passed for entry

Country of origin	Chilled and frozen fresh meat			Cured meat	Canned meat	Sausage (not canned)	Other product	Total
	Beef and veal	Mutton and lamb	Pork					
	Pounds	Pounds	Pounds					
Argentina				1,816,370				1,816,370
Brazil				35,295	265,440			303,735
Canada	108,295	122,170		56,344	44	16,521	223,529	526,903
Czechoslovakia						381		381
Denmark					140,398		1,570	141,968
Estonia					135,047			135,047
France							9,673	9,673
Germany				1,659	11,742	11,675		25,076
Great Britain					166		27,655	27,821
Hungary				62	216,567	110		216,739
Ireland				11,752				11,752
Italy				1,697		33,690		35,387
Japan					1,217			1,217
Latvia					60,543			60,543
Lithuania					151,202			154,202
Netherlands				11,306	242,112			253,418
New Zealand	147,685	151			80	103,370		103,370
Paraguay					64,577	2,730,157	1,054	2,796,508
Poland							720	
Romania						86,923		86,923
Uruguay					15,807	552,104		567,911
Total	255,980	151	122,170	201,579	6,516,783	63,050	265,681	7,425,394

Condemned: Canned beef, 26 pounds; cured beef, 5,942 pounds; canned pork, 26,867 pounds; cured pork, 11,673 pounds; sausage, 110 pounds; miscellaneous, 2 pounds; total, 44,620 pounds. Refused entry: Canned beef, 5 pounds; cured beef, 324 pounds; canned pork, 8,137 pounds; miscellaneous, 660 pounds; total, 9,126 pounds.

**SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION
WITH STATES, FEBRUARY 1939**

State or Territory	Tuberculin tests during month		Total to date ¹			Inspector in charge	State official
	Cattle tested	Cattle re- acted	Once tested free herds	Ac- cre- dited herds	Herds under super- vision		
Alabama-----	2,953	7	270,875	356	271,231	R. E. Jackson-----	I. S. McAdory, Auburn.
Arizona-----	14,933	26	12,236	8	12,593	F. L. Schneider-----	T. B. Jones, Phoenix.
Arkansas-----	1,361	0	230,551	5	230,556	A. W. Rice-----	C. D. Stubbs, Little Rock.
California-----	133,201	2,427	56,025	23	129,451	W. E. Howe-----	C. U. Duckworth, Sacramento.
Colorado-----	699	10	60,611	30	60,846	A. H. Francis-----	R. M. Gow, Denver.
Connecticut-----	12,526	83	624	16,782	18,350	R. L. Smith-----	E. R. Dimock, Hartford.
Delaware-----	799	10	2,186	2,080	4,298	O. L. Lockwood-----	Harry McDaniel, Jr., Dover.
District of Co- lumbia-----	0	0	15	2	17	A. E. Wight-----	
Florida-----	2,828	1	40,261	69	67,656	T. H. Applewhite-----	J. V. Knapp, Tallahassee.
Georgia-----	1,518	0	242,088	27	242,187	W. C. Dendinger-----	J. M. Sutton, Atlanta.
Idaho-----	1,225	2	21,098	29	51,270	A. K. Kuttler-----	E. T. Powell, Boise.
Illinois-----	56,297	181	232,278	630	242,504	J. J. Lintner-----	J. P. Stout, Springfield.
Indiana-----	12,702	56	145,750	1,283	147,750	H. Busman-----	J. L. Axby, Indianapolis.
Iowa-----	83,423	549	169,000	769	196,600	J. A. Barger-----	H. A. Seidell, Des Moines.
Kansas-----	5,933	80	172,338	247	171,032	N. L. Townsend-----	W. J. Miller, Topeka.
Kentucky-----	3,164	3	163,647	24	163,867	Ralph Graham-----	D. E. Westmorland, Frankfort.
Louisiana-----	2,660	15	148,734	-----	148,804	W. A. McDonald-----	E. P. Flower, Baton Rouge.
Maine-----	12,548	19	43,343	377	43,817	A. L. Hirleman-----	H. M. Tucker, Augusta.
Maryland-----	15,801	42	29,088	13,501	42,851	O. L. Lockwood-----	Mark Welsh, Baltimore.
Massachusetts-----	23,971	96	13,926	10,930	25,347	E. A. Crossman-----	Mark Galusha, Boston.
Michigan-----	29,052	65	206,935	59	207,057	C. H. Hays-----	C. H. Clark, Lansing.
Minnesota-----	44,943	169	199,866	652	200,728	W. J. Fretz-----	C. E. Cotton, St. Paul.
Mississippi-----	11,754	20	260,164	3	260,234	H. Robbins-----	E. S. Brashier, Jackson.
Missouri-----	1,939	4	237,594	87	239,705	W. F. Biles-----	H. E. Curry, Jefferson City.
Montana-----	1,818	0	72,999	32	73,033	G. W. Cronen-----	W. J. Butler, Helena.
Nebraska-----	61,316	114	134,887	32	135,227	J. W. Murdock-----	J. S. Anderson, Lincoln.
Nevada-----	285	0	3,417	5	3,441	R. A. Given-----	Edward Records, Reno.
New Hampshire-----	18,353	30	121	17,742	17,992	E. A. Crossman-----	R. W. Smith, Concord.
New Jersey-----	20,706	142	1,924	15,797	17,992	J. R. Porteus-----	R. A. Hendershott, Trenton.
New Mexico-----	682	0	22,104	17	25,450	F. L. Schneider-----	Sam McCue, Albuquerque.
New York-----	16,498	231	5,960	143,598	150,266	H. B. Leonard-----	E. T. Faulder, Albany.
North Carolina-----	2,624	3	256,170	463	256,633	A. A. Husman-----	William Moore, Raleigh.
North Dakota-----	1,471	5	91,280	236	99,198	F. C. Driver-----	T. O. Brandenburg, Bismarck.
Ohio-----	14,475	36	251,140	520	251,882	A. J. DeFosset-----	F. L. Carr, Columbus.
Oklahoma-----	1,871	6	276,338	37	276,375	L. J. Allen-----	D. H. Ricks, Oklahoma City.
Oregon-----	6,783	34	155,328	1,824	157,172	S. B. Foster-----	W. H. Lytle, Salem.
Pennsylvania-----	44,702	148	141,895	7,654	161,090	J. B. Reidy-----	H. M. Kalodner, Harrisburg.
Rhode Island-----	3,369	34	2,191	1,299	3,925	E. A. Crossman-----	J. H. Gibbons, Providence.
South Carolina-----	892	0	71,881	55	71,938	W. K. Lewis-----	W. K. Lewis, Columbia.
South Dakota-----	25,020	55	73,233	2	73,365	C. H. Fauks-----	R. S. Robinson, Pierre.
Tennessee-----	1,294	2	294,797	23	294,832	H. L. Fry-----	A. C. Topmiller, Nashville.
Texas-----	19,212	24	492,281	95	252,915	H. L. Darby-----	T. O. Booth, Fort Worth.
Utah-----	2,804	5	87,311	128	87,688	H. H. Cohenour-----	W. H. Hendricks, Salt Lake City.
Vermont-----	16,484	45	5,837	18,697	24,586	J. J. Staab-----	E. H. Jones, Montpelier.
Virginia-----	7,907	57	198,414	609	199,291	R. E. Brookbank-----	H. C. Givens, Richmond.
Washington-----	14,068	75	72,986	89	76,475	J. C. Exline-----	M. R. Hales, Olympia.
West Virginia-----	4,829	2	114,007	584	114,607	H. M. Newton-----	J. B. McLaughlin, Charleston.
Wisconsin-----	40,631	32	180,553	8,920	189,832	J. S. Healy-----	V. S. Larson, Madison.
Wyoming-----	149	3	3,471	3	4,053	W. A. Sullivan-----	H. D. Port, Cheyenne.
Hawaii-----	-----	-----	1,250	-----	1,250	Lewis Billikam-----	E. H. Willers, Honolulu.
Puerto Rico-----	-----	-----	248	229	6,698	S. H. Still-----	F. A. Lopez Dominguez, San Juan.
Virgin Islands-----	-----	-----	277	-----	277	S. H. Still-----	J. L. Cherry, Christiansted.
Total-----	804,482	4,948	5,971,562	266,663	6,206,324		

¹ All States are 100 percent modified accredited except California, which has 49 counties (85 percent) in the modified accredited area. Puerto Rico and the Virgin Islands are also in the modified accredited area.

SUMMARY OF BANG'S DISEASE WORK IN COOPERATION WITH STATES, FEBRUARY 1939¹

State or Territory	Agglutination blood tests completed during month		Results of agglutination blood tests during month					Herds under supervision	Cattle on waiting list		
	Herds	Cattle	Herds containing infection	Total cattle in herds	Re-actors	Negative					
						Herds	Cattle				
Alabama.....	2,481	20,216	126	5,004	246	2,355	15,212	36,120	33,483		
Arizona.....	114	2,218	20	1,036	58	94	1,182	1,854	2,000		
Arkansas.....	6,348	28,435	446	6,723	787	5,902	21,712	149,554	-----		
California.....								10			
Colorado.....	413	6,450	84	1,667	206	329	4,783	1,362	9,885		
Connecticut.....	35	897	10	162	17	25	735	236	11		
Delaware.....	152	2,670	44	865	76	108	1,805	3,861	2,038		
Florida.....	1,412	34,711	208	18,773	550	1,204	15,938	11,810	41,773		
Georgia.....	3,368	17,001	142	3,632	284	3,226	13,369	57,305	-----		
Idaho.....	716	8,298	149	2,800	313	567	5,498	19,318	-----		
Illinois.....	369	6,668	114	2,405	587	255	4,263	11,289	-----		
Indiana.....	1,051	12,750	200	3,095	543	851	9,655	13,680	3,049		
Iowa.....	873	14,859	332	6,299	1,036	541	8,560	19,902	30,160		
Kansas.....	109	3,917	33	1,243	133	76	2,674	2,447	965		
Kentucky.....	639	9,290	102	2,404	218	537	6,886	36,778	-----		
Louisiana.....	1,871	15,039	136	5,942	373	1,735	9,097	57,105	118,847		
Maine.....	107	2,514	36	831	67	71	1,683	2,416	-----		
Maryland.....	437	6,769	118	2,299	310	319	4,470	16,500	32,978		
Massachusetts.....	10	589	2	134	26	8	455	147	69		
Michigan.....	2,159	21,657	351	4,960	931	1,808	16,697	21,114	9,255		
Minnesota.....	1,837	32,546	499	11,147	908	1,338	21,399	54,993	1,000		
Mississippi.....	346	8,056	79	4,166	173	267	3,890	6,249	-----		
Missouri.....	1,414	17,801	295	5,093	662	1,119	12,708	64,983	-----		
Montana.....	226	4,103	40	1,521	109	186	2,582	8,904	31		
Nebraska.....	162	4,055	42	1,761	111	120	2,324	4,549	5,070		
Nevada.....	23	600	8	422	57	15	178	1,418	-----		
New Hampshire.....	377	5,204	71	1,783	185	306	3,422	3,040	1,498		
New Jersey.....	94	6,413	28	3,702	64	66	2,716	227	-----		
New Mexico.....	363	2,267	21	713	51	342	1,554	6,636	3,000		
New York.....	287	9,531	128	5,609	248	159	3,922	3,224	27,905		
North Carolina.....	4,925	19,293	88	2,693	172	4,837	16,600	72,537	80,000		
North Dakota.....	157	3,257	18	519	54	139	2,738	14,719	3,000		
Ohio.....	1,433	15,313	267	3,735	650	1,166	11,578	41,304	4,520		
Oklahoma.....	4,138	39,017	429	8,750	717	3,709	30,267	34,469	-----		
Oregon.....	3,277	38,501	194	6,931	588	3,083	31,570	60,229	-----		
Pennsylvania.....	3,806	44,745	353	8,764	892	3,453	35,981	60,590	173,707		
Rhode Island.....	10	303	1	14	7	9	294	118	3		
South Carolina.....	1,297	4,944	26	535	30	1,271	4,409	16,155	2,000		
South Dakota.....	226	4,168	67	1,300	194	159	2,859	1,355	4,964		
Tennessee.....	1,778	11,958	145	3,661	314	1,633	8,297	24,921	85,000		
Texas.....	214	21,179	47	10,717	152	167	10,462	884	283		
Utah.....	572	4,163	129	1,645	242	443	2,518	21,717	-----		
Vermont.....	62	1,884	11	288	15	51	1,596	278	-----		
Virginia.....	4,726	30,207	187	4,769	327	4,539	25,438	159,535	199,850		
Washington.....	2,956	29,892	283	7,892	814	2,673	22,000	60,178	-----		
West Virginia.....	2,500	14,019	69	1,500	141	2,431	12,429	33,960	-----		
Wisconsin.....	3,596	77,264	542	14,893	1,698	3,054	62,371	55,410	59,760		
Wyoming.....	96	2,311	27	1,214	107	69	1,097	1,796	3		
Puerto Rico.....											
Total.....	63,562	667,982	6,747	186,109	16,438	56,815	481,873	1,264,657	951,836		

¹ Officials in charge of Bang's disease work are the same as those listed in summary of tuberculosis-eradication work.

BIOLOGICAL PRODUCTS PREPARED UNDER LICENSES, FEBRUARY 1939
Anti-hog-cholera serum

Period	Preserved	Completed	Released	Destroyed
February 1939-----	<i>Cc.</i> 93,551,529	<i>Cc.</i> 83,061,639	<i>Cc.</i> 54,608,385	<i>Cc.</i> 439,563
February 1938-----	53,096,205	58,156,990	41,268,950	186,300
8 months ended-----				
February 1939-----	646,155,333	634,732,186	624,303,225	2,649,440
February 1938-----	440,544,559	450,311,639	472,628,270	1,671,538

Hog-cholera virus

Period	Produced			Destroyed	
	Simultane- ous	Hyper- immu- nizing	Inocu- lating	Simultane- ous	Hyper- immu- nizing
February 1939-----	<i>Cc.</i> 2,472,253	<i>Cc.</i> 19,414,667	<i>Cc.</i> 78,402	<i>Cc.</i> 101,610	<i>Cc.</i> 674,064
February 1938-----	2,131,784	12,704,769	39,084	166,391	470,225
8 months ended-----					
February 1939-----	37,418,216	131,497,764	466,446	1,190,069	4,390,794
February 1938-----	31,887,955	85,545,783	322,026	1,736,981	2,850,029

INSPECTIONS AND TESTS IN THE PREPARATION OF BIOLOGICAL PRODUCTS UNDER LICENSES, FEBRUARY 1939

Period	Animal ins- pections	Animal rejec- tions	Pigs inocu- lated	Hogs hypered	Tests supervised	
					Serum	Virus
February 1939-----	254,844	3,202	20,164	15,001	258	103
February 1938-----	160,378	1,907	12,479	10,051	180	100
8 months ended-----						
February 1939-----	1,844,188	19,590	149,324	103,646	2,582	1,343
February 1938-----	1,221,983	11,981	104,443	66,272	2,079	1,199

LICENSES ISSUED FOR BIOLOGICAL PRODUCTS, FEBRUARY 1939

License No. 6-A was issued February 21, 1939, to Pitman-Moore Co., Division of Allied Laboratories, Inc., near Zionsville, Ind. (mailing address, 1220 Madison Ave., Indianapolis, Ind.), for: Abortion vaccine (bovine); antiblackleg serum; anti-calf-scours serum; anti-canine-distemper serum (homologous); antiencephalomyelitis equine serum (bivalent); antiencephalomyelitis equine serum (eastern type); antiencephalomyelitis equine serum (western type); antienteritis serum (canine); antienteritis serum (feline); antienteritis serum (swine); anti-hemorrhagic-septicemia serum; anti-influenza serum (equine); anti-mixed-infection serum (canine); anti-swine-erysipelas serum; autogenous bacterin; avian tuberculin; blackleg aggressin; blackleg bacterin; botulinus antitoxin; calf-scour mixed bacterin; canine-distemper mixed antigens; canine-distemper tissue vaccine; canine-distemper virus; chicken-pox vaccine; enteritis mixed bacterin (swine); equine-abortion bacterin; eastern-type-encephalomyelitis vaccine (chick); equine-influenza mixed bacterin; fowl-cholera bacterin; fowl-typhoid-cholera bacterin; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; infectious-laryngotracheitis vaccine; keratitis mixed bacterin (bovine); mallein; mastitis mixed bacterin (bovine); metritis mixed bacterin (bovine); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (feline); mixed bacterin (for fowl); mixed bacterin (swine); navel-ill mixed bacterin (equine); normal bovine serum; normal equine serum; ovine-ecthyma vaccine; pulmonary mixed bacterin (bovine); pulmonary mixed bacterin (ovine); pulmonary mixed bacterin (swine); rabies vaccine; staphylococcus-streptococcus bacterin (canine); strep-staph-coli

bacterin (for horses); tetanus antitoxin; tetanus toxoid; tuberculin; western-type-encephalomyelitis vaccine (chick).

License No. 9, was issued February 21, 1939, to Lederle Laboratories, Inc., Middletown Road, Pearl River, N. Y., for: Anthrax spore vaccine; anti-anthrax serum; antiblackleg serum; anti-calf-scours serum; anti-canine-distemper serum; anti-canine-mixed-infection serum; antiencephalomyelitis equine serum (bivalent); antiencephalomyelitis equine serum (eastern type); antiencephalomyelitis equine serum (western type); anti-equine-influenza serum; anti-hemorrhagic-septicemia serum; anti-hog-cholera serum; anti-swine-erysipelas serum; autogenous bacterin; avian-laryngotracheitis vaccine; avian mixed bacterin; avian tuberculin; blackleg cultural aggressin; blackleg natural aggressin; blackleg bacterin; botulinus anti-toxin; bovine abortion vaccine; bovine-hemorrhagic-septicemia combined bacterin; bovine-keratitis mixed bacterin; bovine-mastitis mixed bacterin; bovine mixed bacterin; bovine-pulmonary mixed bacterin; calf-scours mixed bacterin; canine-distemper vaccine; canine-distemper virus; canine mixed bacterin; chauvac-welchii bacterin; eastern-type-encephalomyelitis vaccine (chick); equine abortion bacterin; equine-influenza mixed bacterin; equine mixed bacterin; equine-navel-ill mixed bacterin; feline mixed bacterin; fowl-pox vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; hog-cholera virus; mallein; normal equine serum; ovine-hemorrhagic-septicemia combined bacterin; porcine-hemorrhagic-septicemia combined bacterin; porcine mixed bacterin; porcine-pulmonary mixed bacterin; rabies vaccine; staphylococcus toxoid; swine-erysipelas vaccine (export only); tetanus antitoxin; tetanus toxoid; tuberculin; western-type-encephalomyelitis vaccine (chick).

License No. 52 was issued February 6, 1939, to the Cutter Laboratories, Fourth and Parker Streets, Seventh Street and Dwight Way, and Eighth Street and Dwight Way, Berkeley, Calif. (mailing address, Fourth and Parker Streets), for: Western-type encephalomyelitis vaccine (chick); tetanus toxoid.

License No. 52 was issued February 28, 1939, to the Cutter Laboratories, Fourth and Parker Streets, Seventh Street and Dwight Way, and Eighth Street and Dwight Way, Berkeley, Calif. (mailing address, Fourth and Parker Streets), for: Anaerobic antitoxins; anthrax vaccine; antianthrax serum; anti-calf-scar serum; anti-canine-distemper serum (homologous); anti-distemper-and-anti-influenza serum (equine); antiencephalomyelitis equine serum (eastern type); antiencephalomyelitis equine serum (western type); anti-hemorrhagic-septicemia serum; anti-mixed-infection serum (canine); anti-mixed infection serum (swine); anti-navel-ill serum (equine); anti-swine-erysipelas serum; autogenous bacterin; B. abortus bacterin (equine); bacillus-abortus vaccine (bovine); bacillus-hemolyticus bacterin; blackleg aggressin (cultural); blackleg antigen; blackleg bacterin; blackleg vaccine; calf-scar mixed bacterin; canine-distemper antigen; canine-distemper virus; chicken-pox vaccine; feline-distemper bacterin; gonadins serum; hemorrhagic-septicemia bacterin; infectious-laryngo-tracheitis vaccine; influenza mixed bacterin (equine); keratitis mixed bacterin (bovine); mallein; mastitis mixed bacterin (bovine); mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (swine); navel-ill mixed bacterin (equine); normal bovine serum; normal equine serum; ovine-ecthyma vaccine; pneumonia mixed bacterin (equine); polyvalent mixed bacterin (equine); pulmonary mixed bacterin (bovine); pulmonary mixed bacterin (ovine); rabies vaccine; staphylococcus bacterin (canine); streptococcal bacterin (equine); tetanus antitoxin; tetanus toxoid; tuberculin; tuberculin (avian); western-type-encephalomyelitis vaccine (chick).

License No. 107 was issued February 21, 1939, to The Jensen-Salsbury Laboratories, Inc., Twenty-first and Penn Streets, Kansas City, Mo., and Eleventh Street and Douglas Avenue, Kansas City, Kans. (mailing address, Twenty-first and Penn Streets, Kansas City, Mo.) for: Anthrax bacterin; anthrax spore vaccine; antianthrax serum; anti-calf-scar serum; anti-canine-distemper serum; antiencephalomyelitis equine serum (bivalent); anti-enteritis serum (swine); anti-hemorrhagic-septicemia serum; anti-hog-cholera serum; anti-influenza serum (equine); antimastitis serum (bovine); anti-mixed-infection serum (canine); anti-mixed infection serum (feline); anti-navel-ill serum (equine); anti-swine-erysipelas serum; autogenous bacterin; avian tuberculin; blackleg aggressin (cultural); blackleg aggressin (natural); blackleg bacterin; botulinus antitoxin; bovine abortion vaccine; calf-scar mixed bacterin; canine-distemper vaccine; canine-distemper virus; cholera-typhoid bacterin (avian); contagious ecthyma vaccine (sheep); eastern-type-encephalomyelitis vaccine (chick); enteritis mixed bacterin (swine); equine abortion bacterin; fowl-pox vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; hog-cholera virus; influenza mixed

bacterin (equine); johnin; keratitis mixed bacterin (bovine); mallein; mastitis mixed bacterin (bovine); metritis mixed bacterin (bovine); mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (cat); mixed bacterin (ovine); mixed bacterin (rabbits); navel-ill mixed bacterin (equine); normal bovine serum; normal equine serum; pneumonia mixed bacterin (bovine); pneumonia mixed bacterin (swine); polyvalent mixed bacterin (equine); rabies vaccine; staphylococcus bacterin (canine); tetanus antitoxin; tetanus toxoid; tuberculin; western-type-encephalomyelitis vaccine (chick).

License No. 112 was issued February 21, 1939, to Fort Dodge Serum Co., Inc., 300 First Avenue, South, Fort Dodge, Iowa, and 2 miles from the city in Douglas Township (mailing address, 300 First Avenue, South, Fort Dodge, Iowa.), for: Abortion vaccine (bovine); anthrax vaccine; antiblackleg serum; anti-calf-scour serum; anti-canine-distemper serum (homologous); anti-encephalomyelitis equine serum (bivalent); antienteritis serum (feline, homologous); antierysipelas serum (swine); anti-equine-influenza serum; anti-gastro-enteritis serum (canine); anti-hemorrhagic-septicemia serum; anti-hemorrhagic-septicemia serum (for cattle); anti-hemorrhagic-septicemia serum (for swine); anti-hog-chloera serum; antimamritis serum (bovine); anti-mixed-infection serum (canine); anti-mixed-infection serum (swine); anti-navel-ill serum (equine); anti-pig-scour serum; autogenous bacterin; avian tuberculin; blackleg aggressin (cultural); blackleg aggressin (natural); blackleg bacterin; blackleg vaccine; botulinus antitoxin (polyvalent); calf-scour mixed bacterin; canine-distemper vaccine; contagious-ecchyma vaccine; enteritis mixed bacterin (swine); equine abortion bacterin; equine-influenza bacterin; equine-influenza mixed bacterin; fowl-pox vaccine; hemorrhagic-septicemia aggressin; hemorrhagic-septicemia bacterin; hemorrhagic-septicemia bacterin (avian); hemorrhagic-septicemia bacterin (cattle); hemorrhagic-septicemia bacterin (equine); hemorrhagic-septicemia bacterin (rabbits); hemorrhagic-septicemia bacterin (sheep); hemorrhagic-septicemia bacterin (swine); hog-cholera virus; keratitis mixed bacterin (bovine); mallein; mastitis mixed bacterin (bovine); mixed bacterin (avian); mixed bacterin (bovine); mixed bacterin (canine); mixed bacterin (feline); mixed bacterin (sheep); mixed bacterin (swine); navel-ill-mixed bacterin (equine); normal bovine serum; normal equine serum; normal porcine serum; pneumonia mixed bacterin (equine); polyvalent mixed bacterin (equine); pullorin; pulmonary mixed bacterin (cattle); pulmonary mixed bacterin (sheep); rabies vaccine; staph-strep bacterin (canine); tetanus toxoid; tetanus antitoxin; tuberculin; western-type-encephalomyelitis vaccine (chick); eastern-type-encephalomyelitis vaccine (chick).

LICENSES TERMINATED, FEBRUARY 1939

Licenses No. 6-A, issued February 5, February 26, and September 28, 1938, to Pitman-Moore Co., Division of Allied Laboratories, Inc., 1220 Madison Avenue, Indianapolis, Ind., were terminated February 21, 1939, because of the discontinuance of production of some products and changes in the nomenclature of others.

Licenses No. 9, issued September 21, 1936, May 2, and June 24, 1938, to Lederle Laboratories, Inc., Middletown Road, Pearl River, N. Y., were terminated February 21, 1939, because of the discontinuance of production of some products and changes in the nomenclature of others.

License No. 39, issued August 28, 1936, to The Purity Serum Co., Stock Yards Station, Sioux City, Iowa, was terminated February 15, 1939, because of the discontinuance of production of blackleg aggressin (cultural).

License No. 52, issued May 7, 1935, to Cutter Laboratories, Fourth and Parker Streets, Berkeley, Calif., was terminated February 6, 1939, because of the discontinuance of production of equine encephalomyelitis vaccine.

Licenses No. 52, issued January 21, April 11, and June 7, 1935, March 17, March 24, April 14, May 13, and October 19, 1936, and February 6, 1939, to Cutter Laboratories, Fourth and Parker Streets, Berkeley, Calif., were terminated February 28, 1939, because of the discontinuance of production of some products and changes in the nomenclature of others.

Licenses No. 107, issued April 2, 1936, July 14, 1937, and September 22, 1937, to The Jensen-Salsbury Laboratories, Inc., Twenty-first and Penn Streets, Kansas City, Mo., were terminated February 21, 1939, because of the discontinuance of production of some products and changes in the nomenclature of others.

Licenses No. 112, issued June 29, July 26, and November 30, 1934, April 2, May 22, and September 18, 1935, March 17, June 16 and June 22, 1936, July 24,

1937, and February 14, 1938, to Fort Dodge Serum Co., 300 First Avenue, South, Fort Dodge, Iowa, were terminated February 21, 1939, because of the discontinuance of production of some products and changes in the nomenclature of others.

RESULTS OF PROSECUTIONS FOR VIOLATIONS OF LAWS

Penalties and fines have been imposed in prosecutions for violations of regulatory laws, as reported to the Bureau, as follows:

Twenty-eight Hour Law

Chicago & North Western Railway Co., \$100 penalty.

Chicago, Burlington & Quincy Railroad Co. (3 cases), \$300 penalties.

Chicago, Milwaukee, St. Paul & Pacific Railroad Co. (2 cases), \$200 penalties.

Chicago, Rock Island & Pacific Railway Co., \$100 penalty.

Georgia Railroad, \$100 penalty.

Missouri Pacific Railroad Co., \$100 penalty.

Livestock Quarantine Law

Atchison, Topeka & Santa Fe Railway Co., interstate movement of infectious car without prior cleaning and disinfection under Bureau supervision (2 cases), \$200 fines.

Southern Pacific Co., interstate movement of infectious car without prior cleaning and disinfection under Bureau supervision, \$100 fine.

Meat Inspection Act

For offering uninspected meat for interstate shipment:

Emilio Stoppani, Union City, N. J., \$25 fine.

Frieda Malbin, Bronx, N. Y., \$50 fine.

For offering unwholesome meat for interstate shipment:

Leo Zesiger, Weiser, Idaho, \$200 fine.

PROCEEDINGS UNDER THE PACKERS AND STOCKYARDS ACT

Docket No. 1153.—In re Delancey & Pitt Live Poultry Market Corporation, New York, N. Y. The Acting Secretary of Agriculture on August 1, 1938, ordered that a hearing be held to allow applicant an opportunity to show cause why its application for a license to buy, sell, and handle live poultry in commerce should not be denied. A hearing was held on August 16. The examiner's report was served on applicant on September 19, to which the applicant filed exceptions. These exceptions were orally argued before the Secretary of Agriculture on December 23. After a full consideration of the entire record in this case, it was found that the applicant had failed to show that it is able to fulfill the obligations it would incur as a licensee. Therefore, on March 15, 1939, its application for a license was denied.

Docket No. 1158.—In re Crider Brothers Commission Co., Kansas City, Mo. The Acting Secretary of Agriculture on September 2, 1938, issued an inquiry and notice of hearing alleging that respondent had violated the Packers and Stockyards Act in that it had engaged in unfair, unjustly discriminatory, and deceptive practices and devices in connection with the handling of livestock in commerce. A hearing was held on October 4. A copy of the examiner's report was served on counsel of record. The Government attorney and the respondent filed exceptions and each waived oral argument. From the evidence adduced at the hearing, it was found that respondent had failed to keep accounts, records, and memoranda fully and correctly disclosing all transactions involved in its business, in that the accounts purchase in several instances showed that cattle were purchased at 35 cents per hundredweight more than the actual purchase price. Therefore, on March 25, 1939, the Acting Secretary ordered respondent to cease and desist from the unfair, unjustly discriminatory, and deceptive practice and device of rendering accounts showing thereon a purchase price in excess of that actually paid for the livestock, and to keep accounts, records, and memoranda fully and correctly disclosing all transactions involved in its business. It was also ordered that respondent's registration as a market agency be suspended for 1 year.

Docket No. 1163.—In re C. P. Poland, Mississippi Valley Stock Yards, St. Louis, Mo. On April 20, 1938, G. W. Rice of Denver, Colo., filed an informal complaint

against C. P. Poland, proprietor of the Mississippi Valley Stock Yards, St. Louis, Mo., seeking reparation in the sum of \$1,741.95, alleging in substance that the defendant failed to render reasonable stockyard services in connection with the handling of five carloads of sheep which were received by the stockyards company on February 20. A copy of the informal complaint was served on C. P. Poland, who filed an informal answer, denying in substance the allegations in the complaint. On September 29 the Acting Secretary of Agriculture issued an inquiry and notice of hearing, alleging that on account of the failure of the defendant to render reasonable stockyard services the sheep did not receive the proper care and that the complainant suffered a loss in the amount of \$1,741.95. A hearing was held on October 7, but the evidence adduced did not disclose that the stockyard company failed to render reasonable stockyard services. A copy of the examiner's report was served on counsel of record. Counsel for complainant filed exceptions to the examiner's report, but none were filed by the attorney for the Government nor the attorney for defendant. Therefore, on March 1, 1939, the case was dismissed.

Docket No. 1185.—In re Frank Houser, St. Louis, Mo. On or about December 2, 1938, the Missouri Farmers Exchange of Henley, Inc., Henley, Mo., filed an informal complaint against respondent seeking reparation in the sum of \$111.92 for failure to pay for live poultry purchased from the exchange. On December 5 the respondent admitted the indebtedness. On January 14, 1939, the Secretary of Agriculture issued an inquiry and notice of hearing alleging that respondent was financially unable to fulfill his obligations incurred as a licensee under the Packers and Stockyards Act. On February 4 respondent acknowledged service of the inquiry, admitted the truth of the matters and things alleged, and waived a hearing thereon. On March 1 the Acting Secretary issued an order revoking the license of respondent to handle live poultry in commerce at St. Louis, Mo., and ordered him to pay the Missouri Farmers Exchange of Henley, Inc., reparation in the amount of \$111.92, with interest thereon at the rate of 6 percent per annum from December 2, 1938, until paid.

Docket No. 1188.—In re Adolph E. Bocek, Fairbury and other Nebraska markets. The Secretary of Agriculture on January 19, 1939, issued an inquiry and notice of hearing alleging that respondent had violated the Packers and Stockyards Act in that he had engaged in the unfair and deceptive practice and device of carrying on business as a dealer at said stockyards without executing and maintaining a bond or other satisfactory form of indemnity to cover his financial obligations. On January 30 respondent accepted service of the notice of inquiry, admitted the truth of the matters and things therein alleged, and waived a hearing thereon. On March 1 respondent was ordered to cease and desist from the unfair and deceptive practice mentioned above, and was suspended from registration as a dealer for 6 months, with leave, however, to apply for a revocation of this suspension upon satisfactory proof to the Secretary that he has furnished a bond or other satisfactory indemnity as required by the act.

Docket No. 1191.—In re Linden Poultry Co., Inc., Brooklyn, N. Y. The Secretary of Agriculture on January 25, 1939, issued an inquiry and notice under the Packers and Stockyards Act, alleging that respondent had engaged in an unfair and unjustly discriminatory practice in failing to pay for live poultry purchased in commerce and had failed to maintain such financial status as would entitle it to receive a license under the act. On February 15 respondent admitted the truth of the matters and things alleged and waived a hearing thereon. On March 10 respondent was ordered to pay reparation to Bernsteins' Duck Service in the amount of \$524.73 with interest thereon at the rate of 6 percent per annum from July 7, 1938, until paid; and to James N. Norris the amount of \$362.25 with interest at the rate of 6 percent per annum from July 7, 1938, until paid. It was also ordered that respondent's license to buy, sell, and handle poultry in commerce be revoked, effective March 25.

Stockyard Posted

The Statesboro Livestock Commission Co., Statesboro, Ga., was posted on March 16, 1939, as coming within the jurisdiction of the Secretary of Agriculture under the Packers and Stockyards Act.

Stockyards Withdrawn From Jurisdiction

The Pasco Union Stockyards, Pasco, Wash., was withdrawn from the jurisdiction of the Secretary of Agriculture under the Packers and Stockyards Act on February 27, 1939, and the Savannah Stock Yards, Savannah, Ga., on March 16.

PERMITTED DIPS FOR SCABIES

Manufacturer

Permission has been granted by the Department for the use of Nicotine Sulfate Solution (Reynolds), manufactured by the R. J. Reynolds Tobacco Co., Winston-Salem, N. C., in the official dipping of cattle and sheep for scabies, in accordance with the provisions of B. A. I. Order 309. The dilution at which this dip is permitted to be used is 1 gallon of concentrated product to not more than 942 gallons of water.

Distributors

Permission has been granted by the Department to the General Chemical Co., 40 Rector Street, New York, N. Y., to distribute Nicotine Sulfate Solution (Reynolds) for use in official dipping of sheep and cattle for scabies under the name Orchard Brand Nicotine Sulfate, in accordance with the provisions of B. A. I. Order 309. The dilution at which this dip is permitted to be used is 1 gallon of concentrated product to not more than 942 gallons of water.

Bowker's Nicotine Sulphate, permitted for use in the official dipping of cattle and sheep for scabies, is now distributed by The American Agricultural Chemical Co. of Baltimore, Md., instead of the Bowker Chemical Co.

NEW PUBLICATIONS OF THE BUREAU

[The Bureau keeps no mailing list for sending publications to individual employees, but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request.]

Technical Bulletin 667. Wintering Steers on Different Planes of Nutrition From Weaning to 2½ Years of Age. By W. H. Black, J. R. Quesenberry, and A. L. Baker, Animal Husbandry Division. Pp. 20, figs. 5.

Farmers' Bulletin 1409 (slightly revised). Turkey Raising. By Stanley J. Marsden and Alfred R. Lee, Animal Husbandry Division. Pp. 45, figs. 23.

Miscellaneous Circular 14. State Sanitary Requirements Governing Admission of Livestock. Revised to September 1, 1938. Pp. 156.

Index to Service and Regulatory Announcements January-December 1938. Pp. 3.

Amendment 29 to Declaration 12 of B. A. I. Order 309. Declaring Names of Counties in Modified Tuberculosis-Free Accredited Areas. Effective March 1, 1939. Pp. 2, mimeographed.

ORGANIZATION OF THE BUREAU OF ANIMAL INDUSTRY

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Assistant Chief: A. W. MILLER.

Assistant Chief: HARRY W. SCHOENING.

Assistant Chief: PAUL E. HOWE.

Business Manager: J. R. COHRAN.

Assistant Business Manager: N. A. OLSTEAD.

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Animal Nutrition Division: PAUL E. HOWE, Chief.

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Division of Tick Eradication and Special Diseases: W. M. MACKELLAR, Chief.

Division of Virus-Serum Control: D. I. SKIDMORE, Chief.

Field Inspection Division: S. O. FLADNESS, Chief.

Interstate Inspection Division: A. W. MILLER, Chief.

Meat Inspection Division: E. C. JOSS, Chief.

Pathological Division: HARRY W. SCHOENING, Chief.

Tuberculosis Eradication Division: A. E. WIGHT, Chief.

Zoological Division: BENJAMIN SCHWARTZ, Chief.

Animal Disease Station: ADOLPH EICHHORN, Director.

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